

EXISTING  
DATABASES AND  
APPLICATIONS

FIG. 1

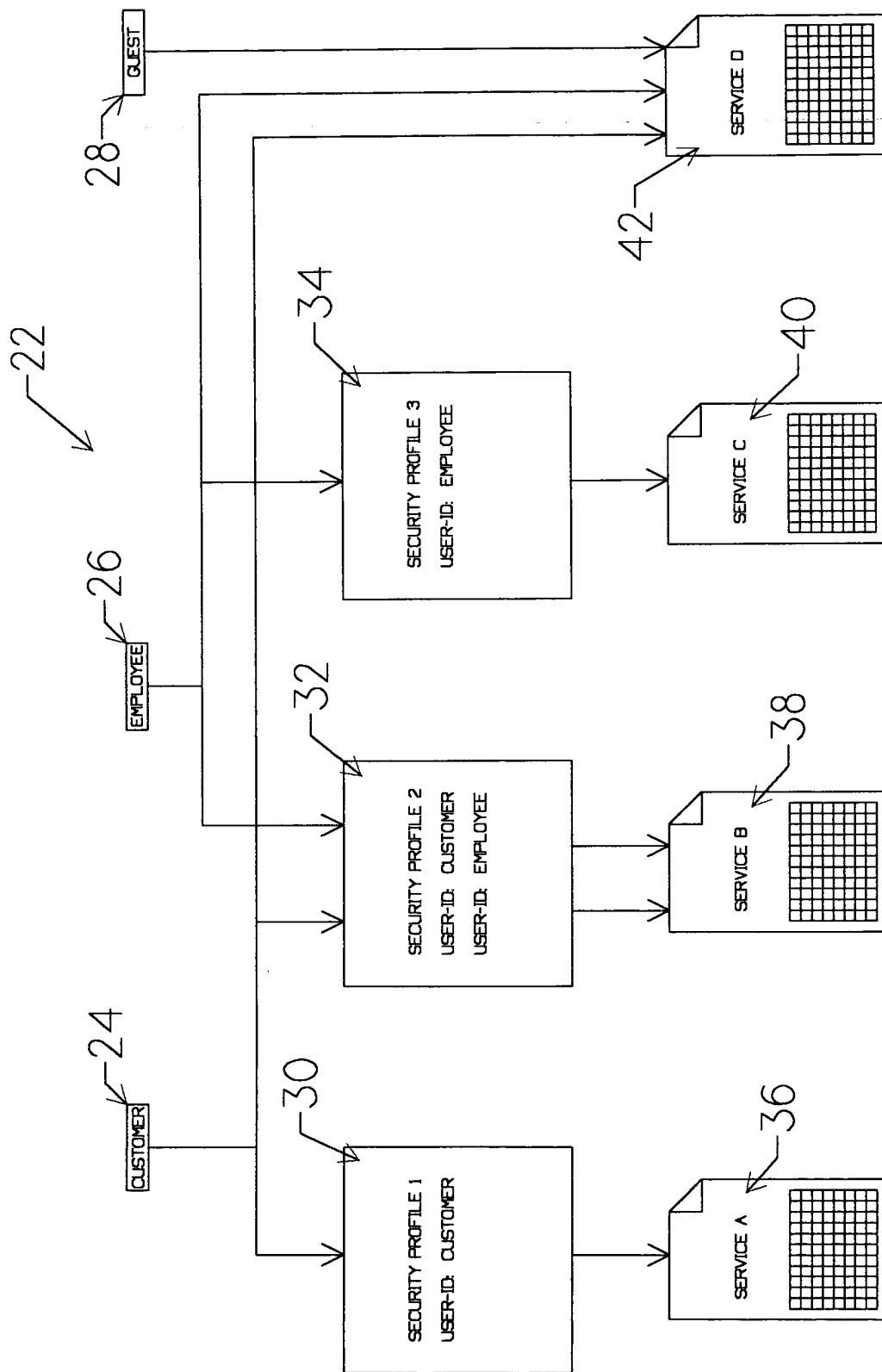


FIG. 2

FIG. 3

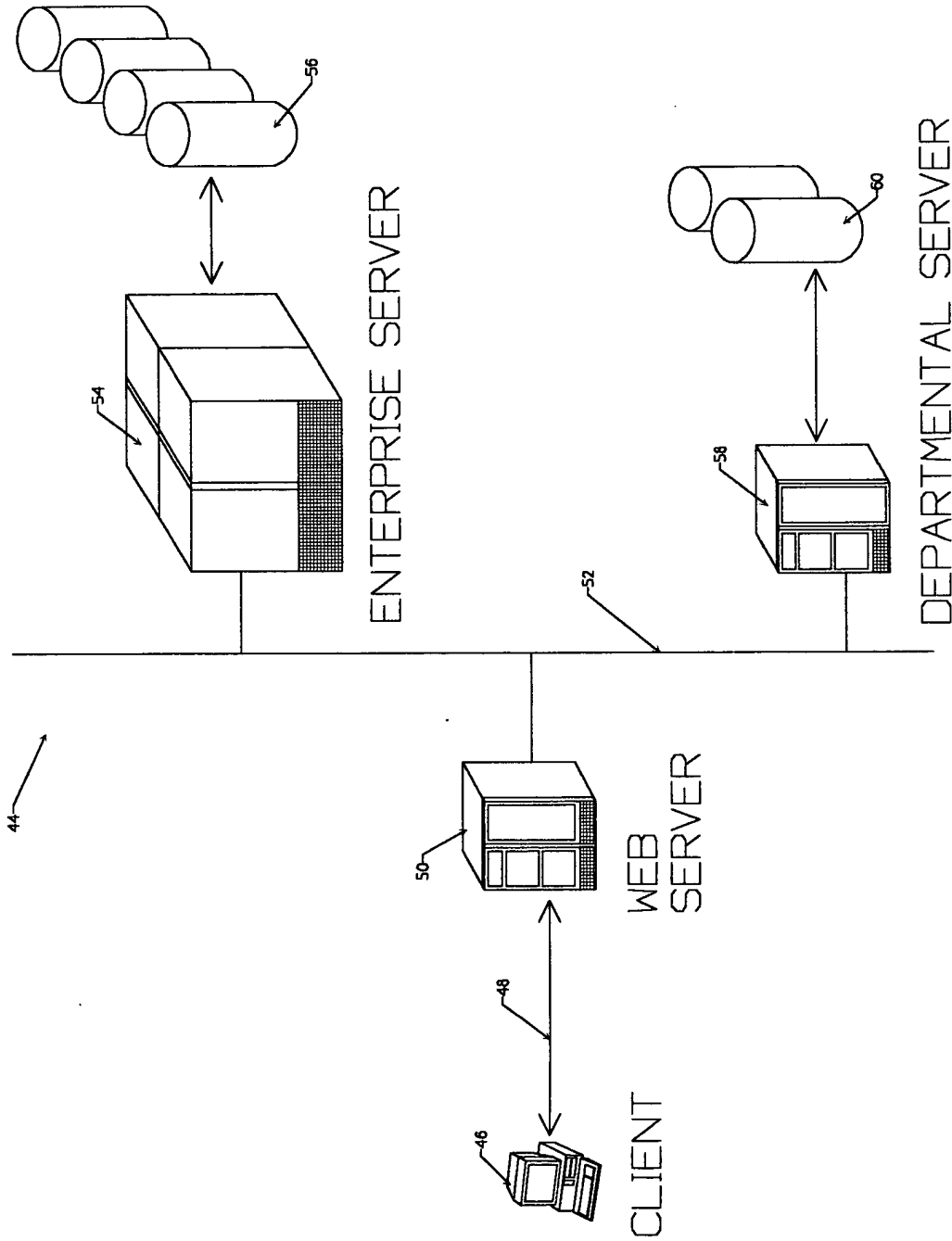


FIG. 3

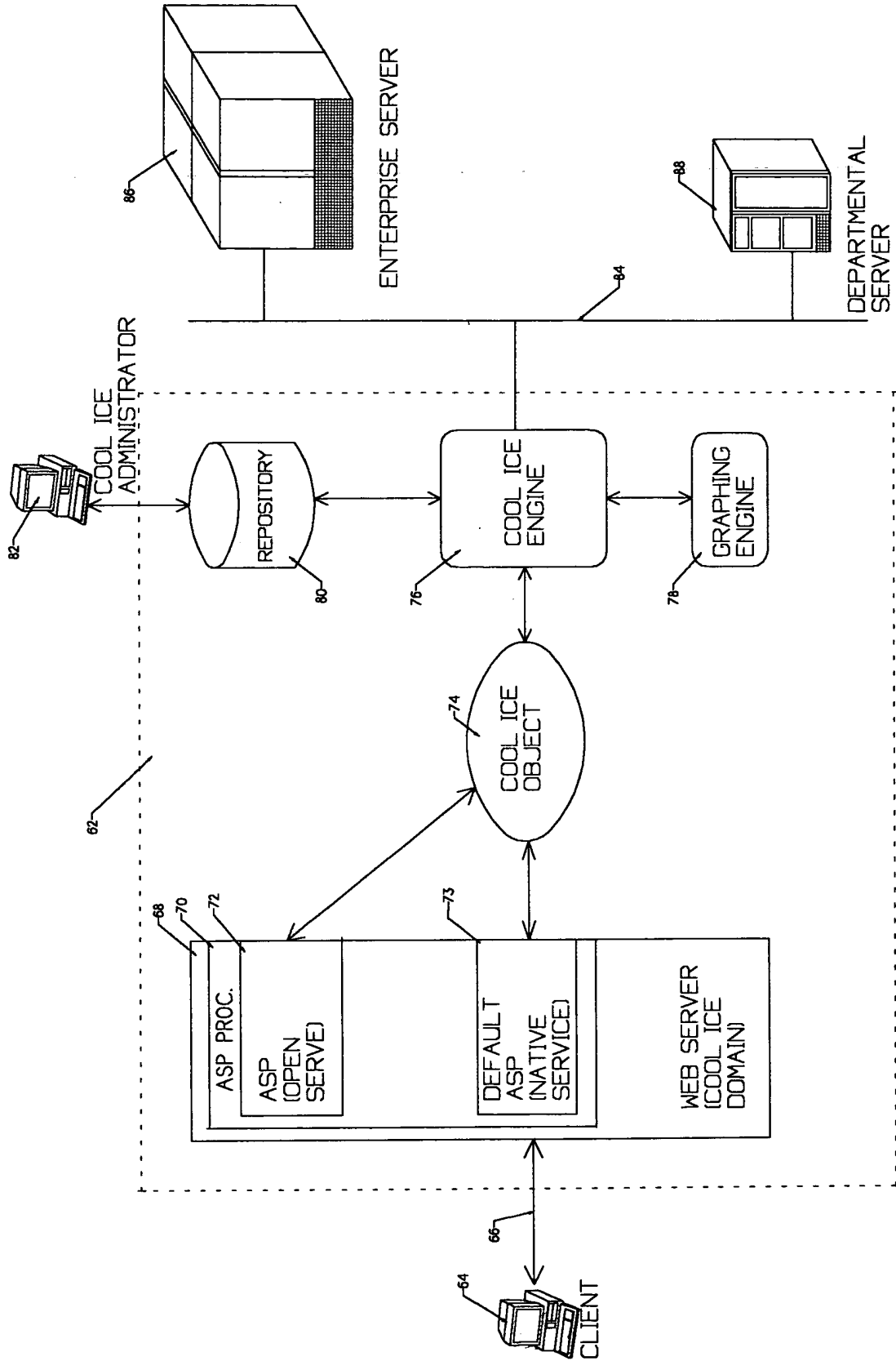


FIG. 4

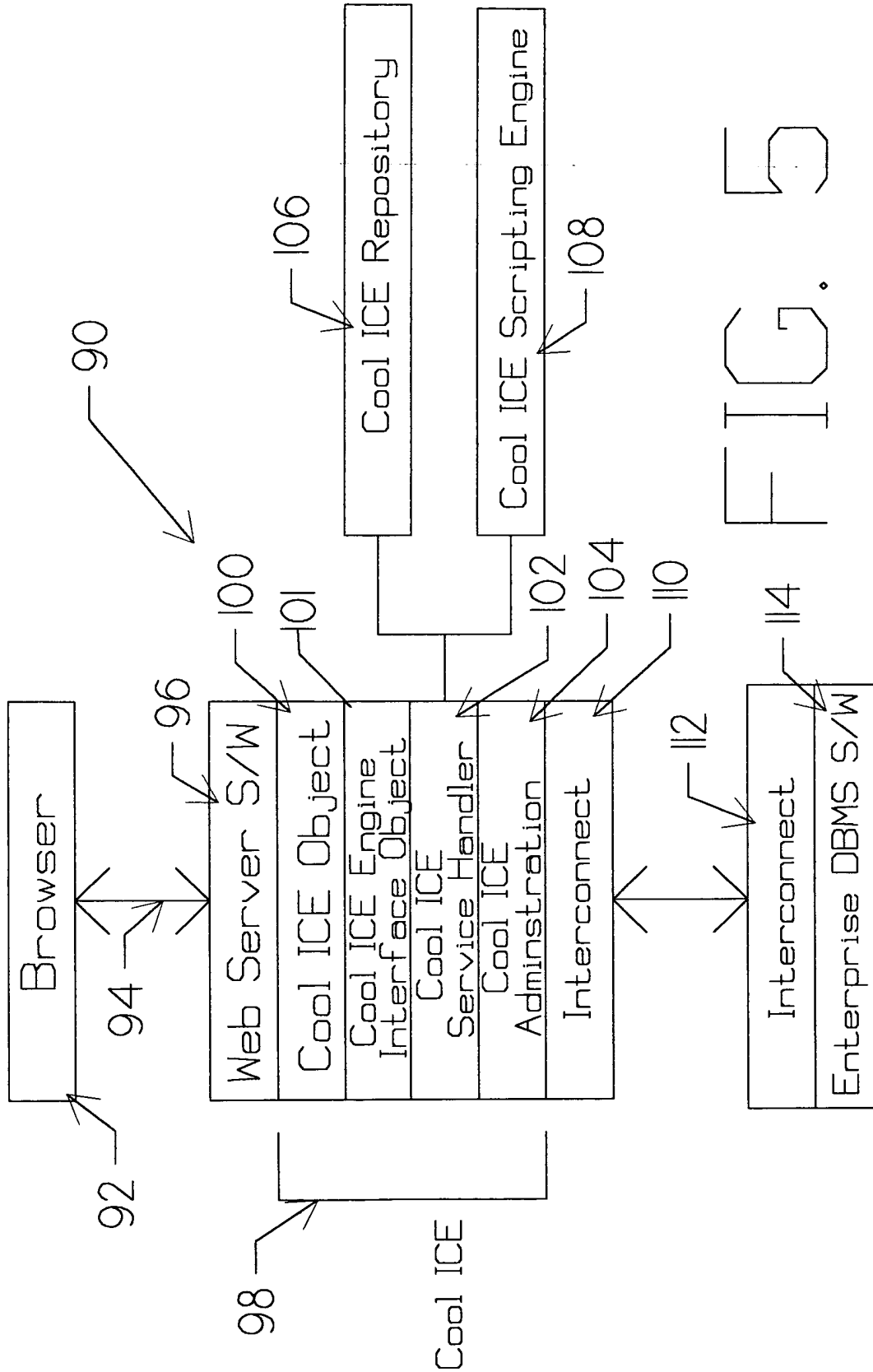


FIG. 5

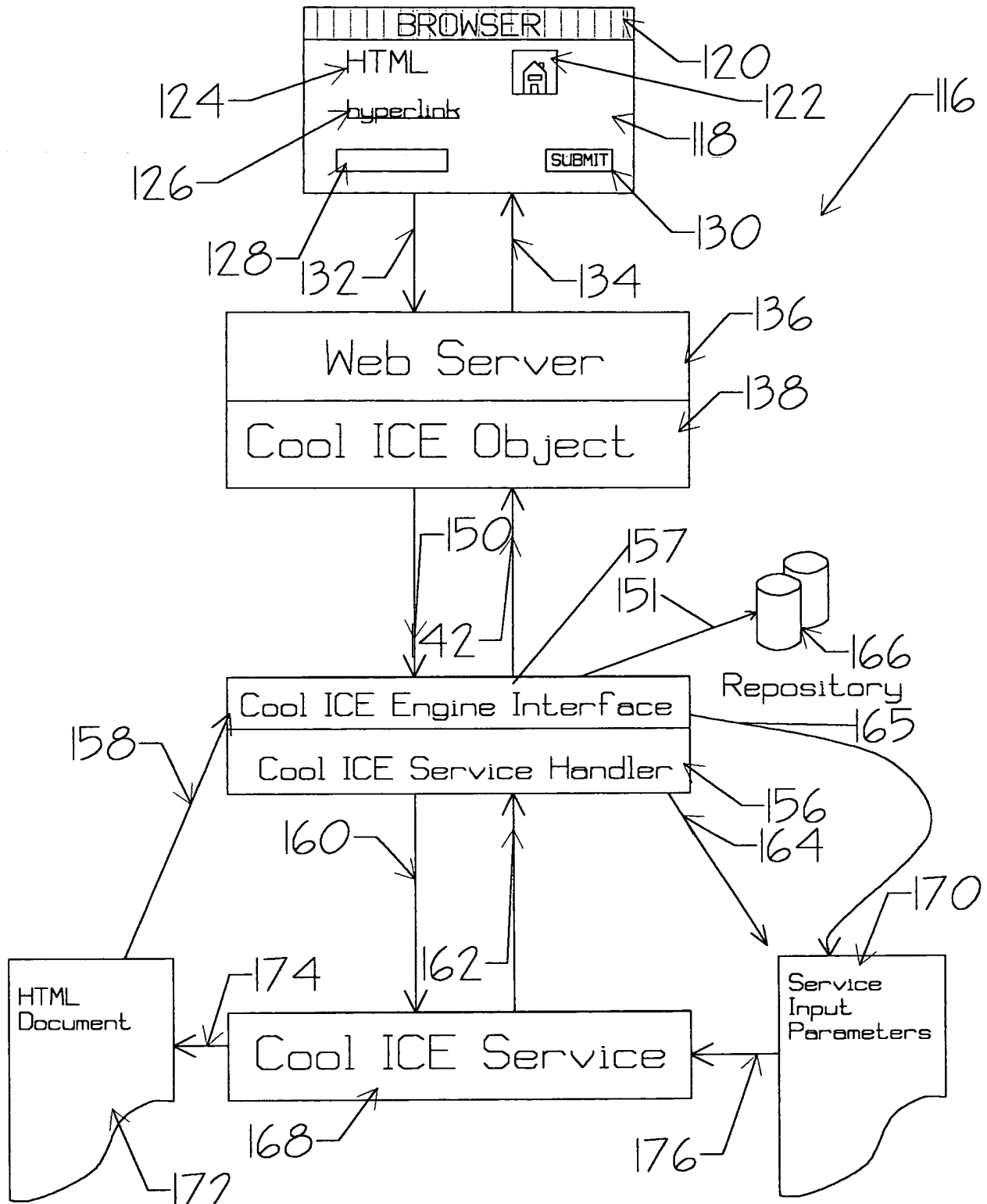


FIG. 6

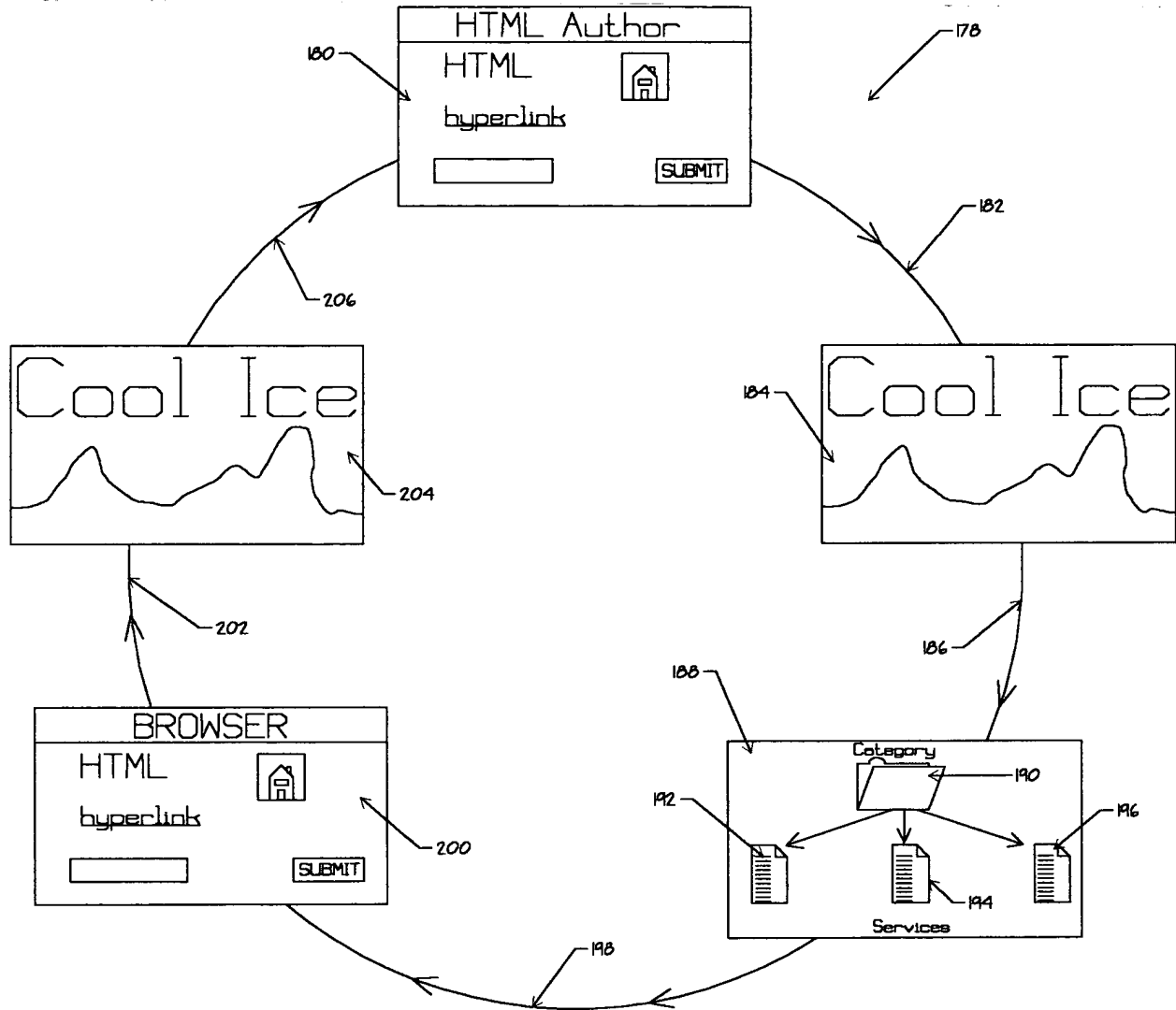


FIG. 7

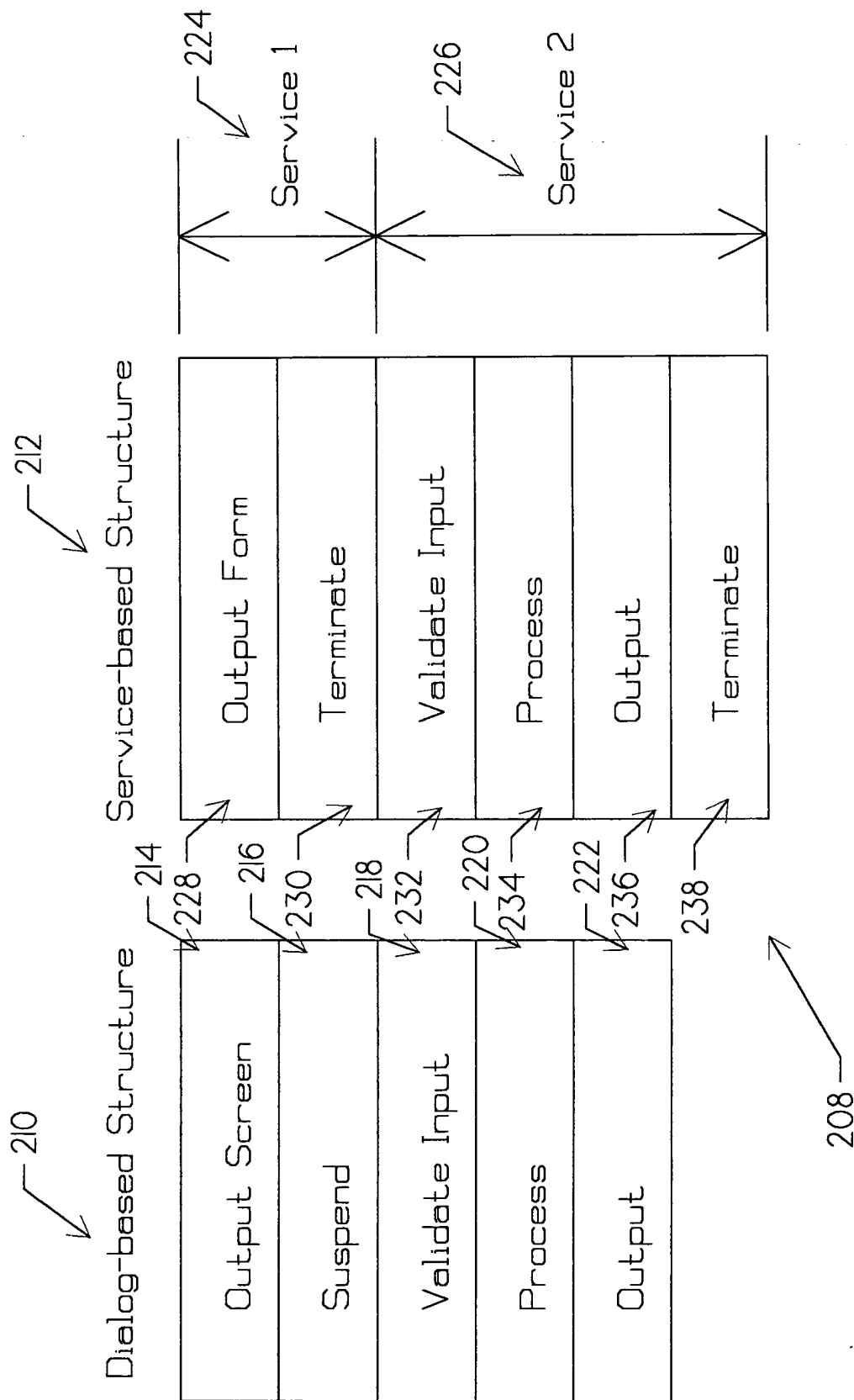


FIG. 8



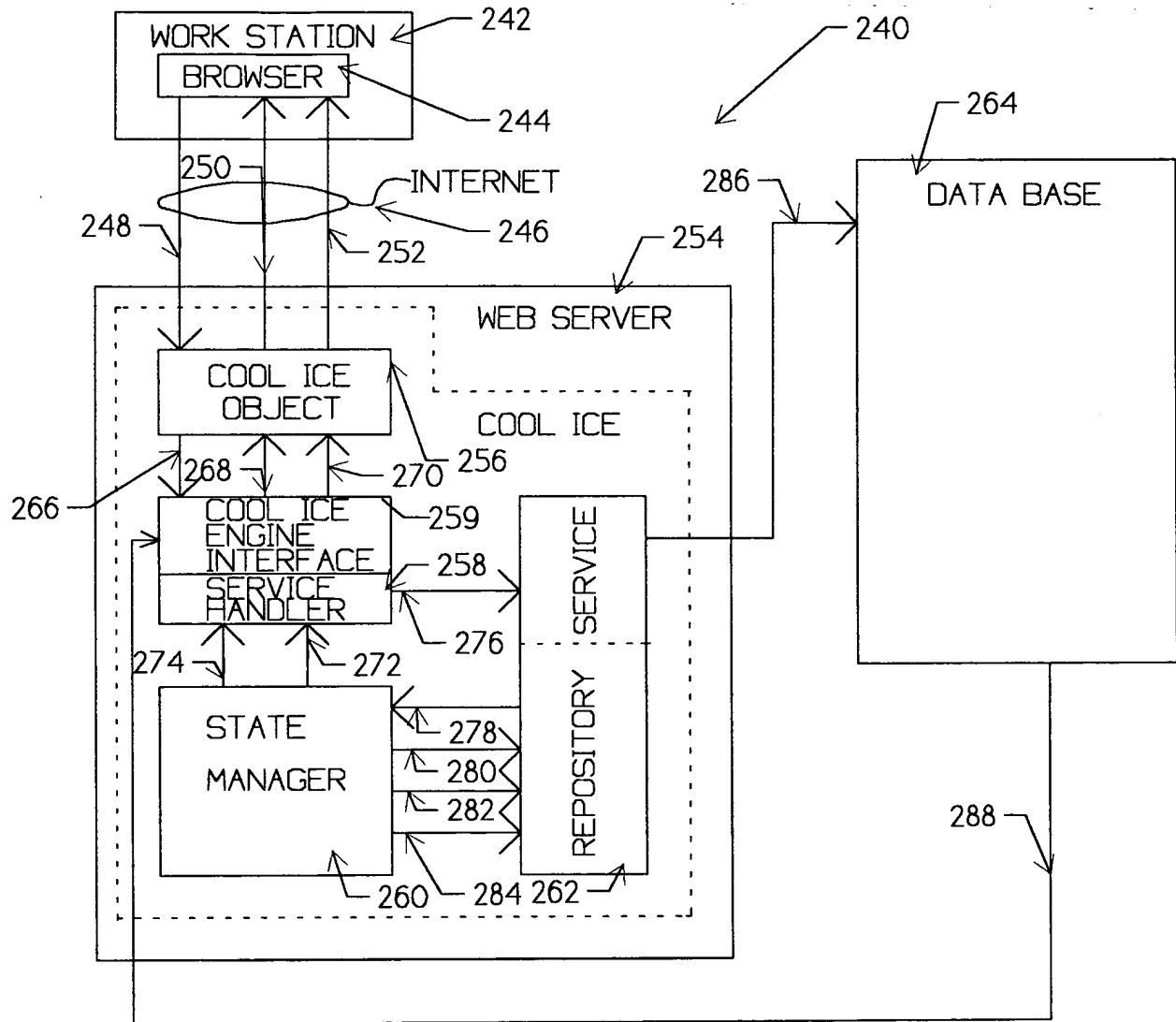


FIG. 9

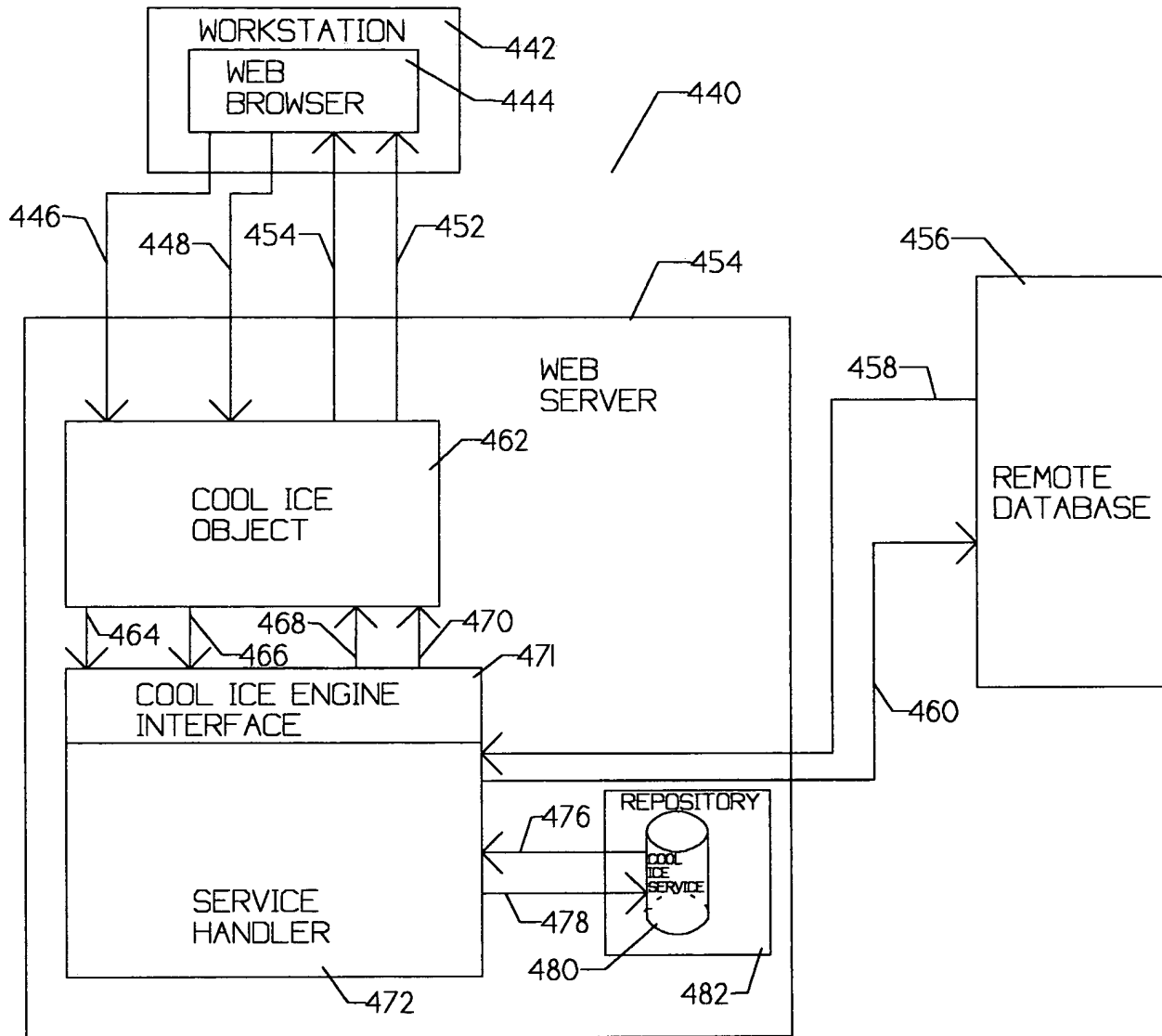


FIG. 10

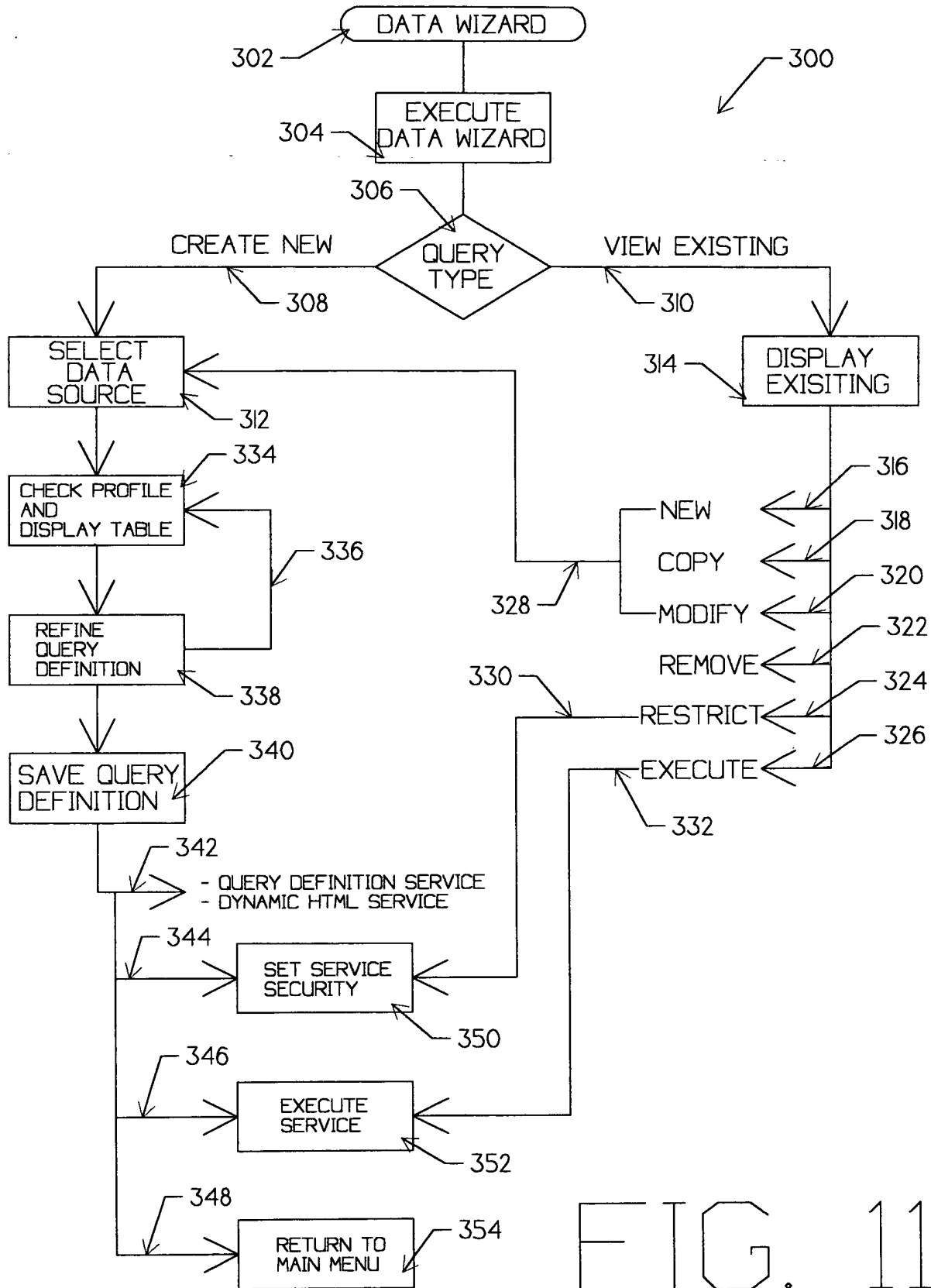


FIG. 11

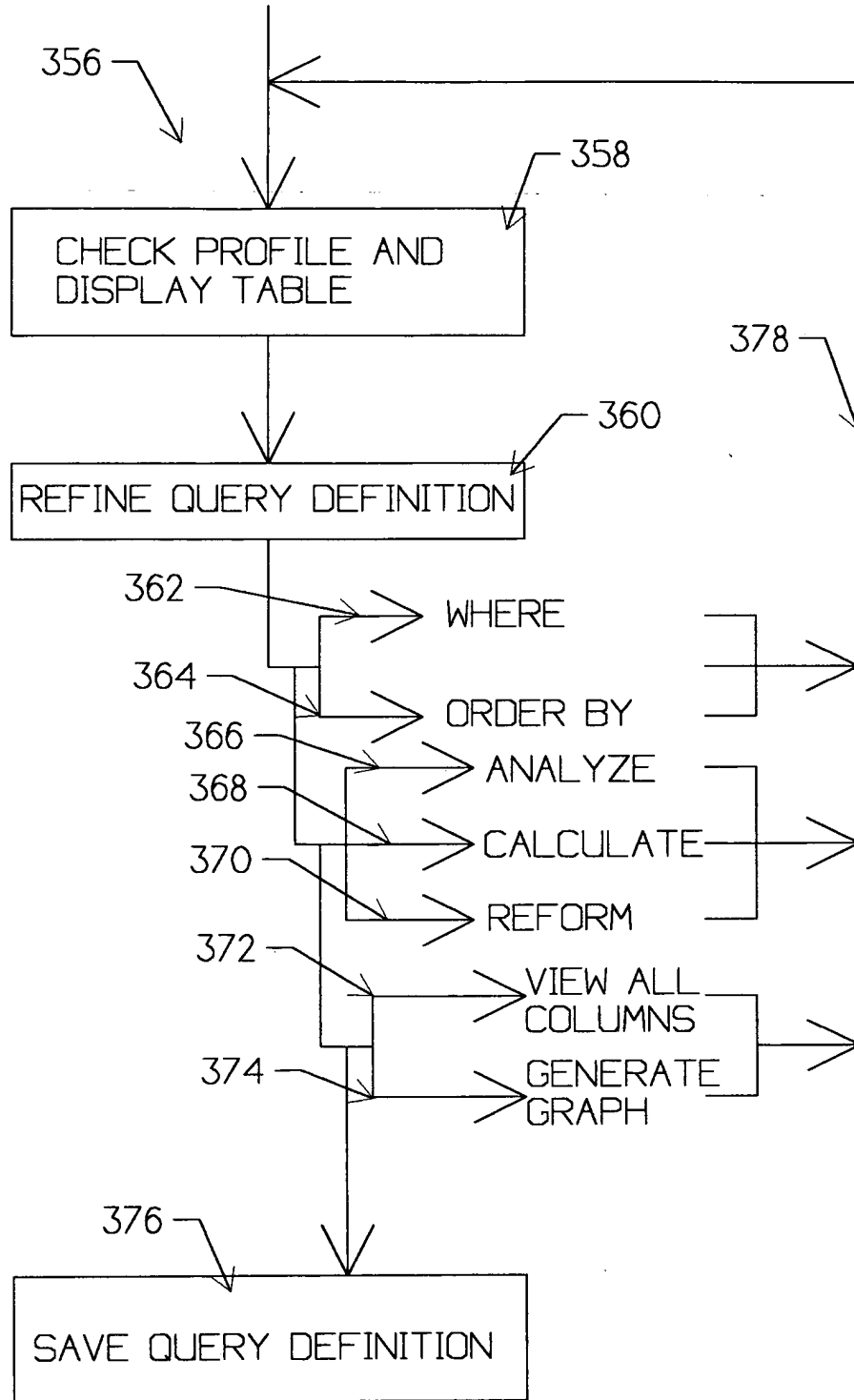


FIG. 12

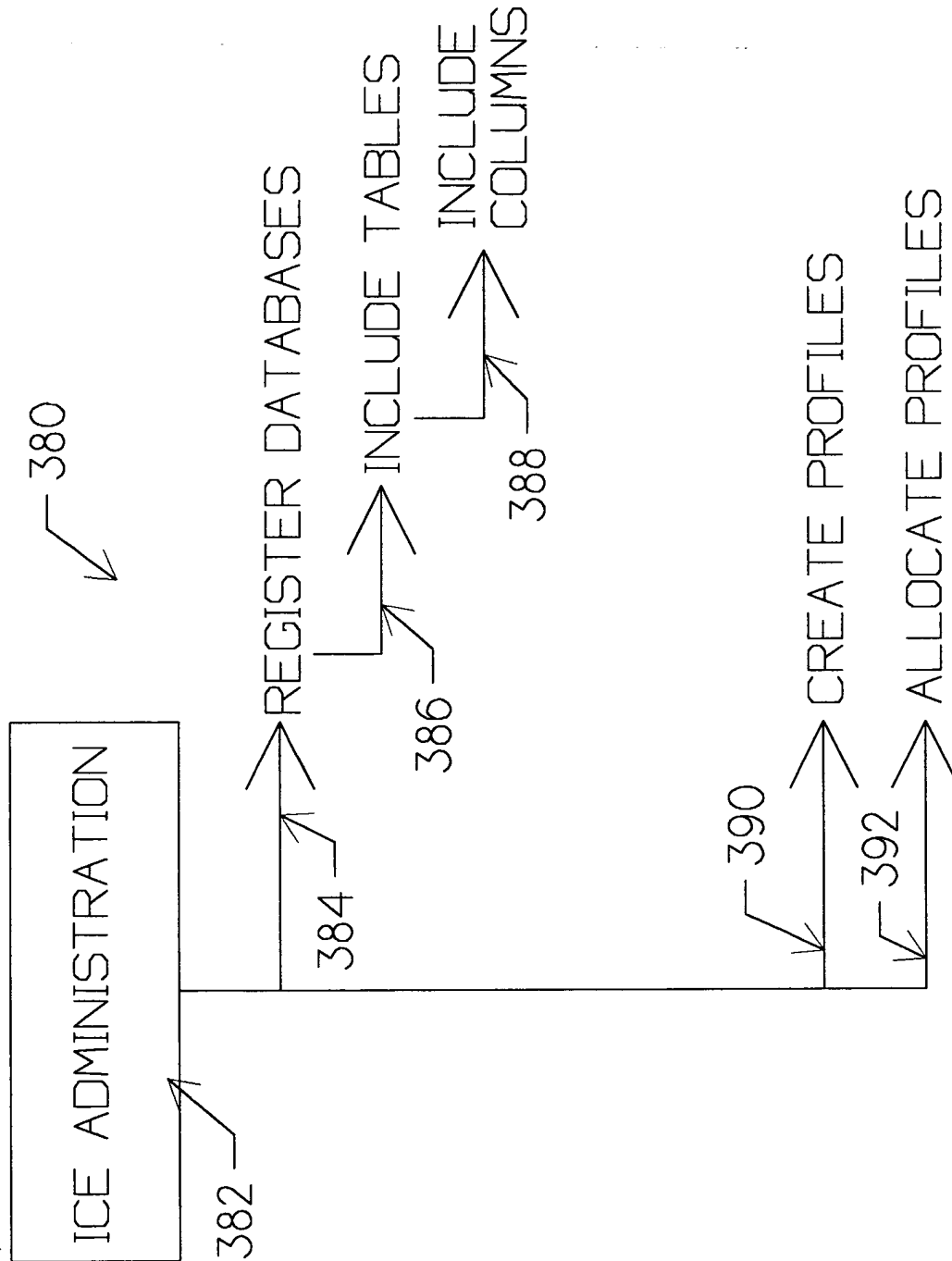


FIG. 13

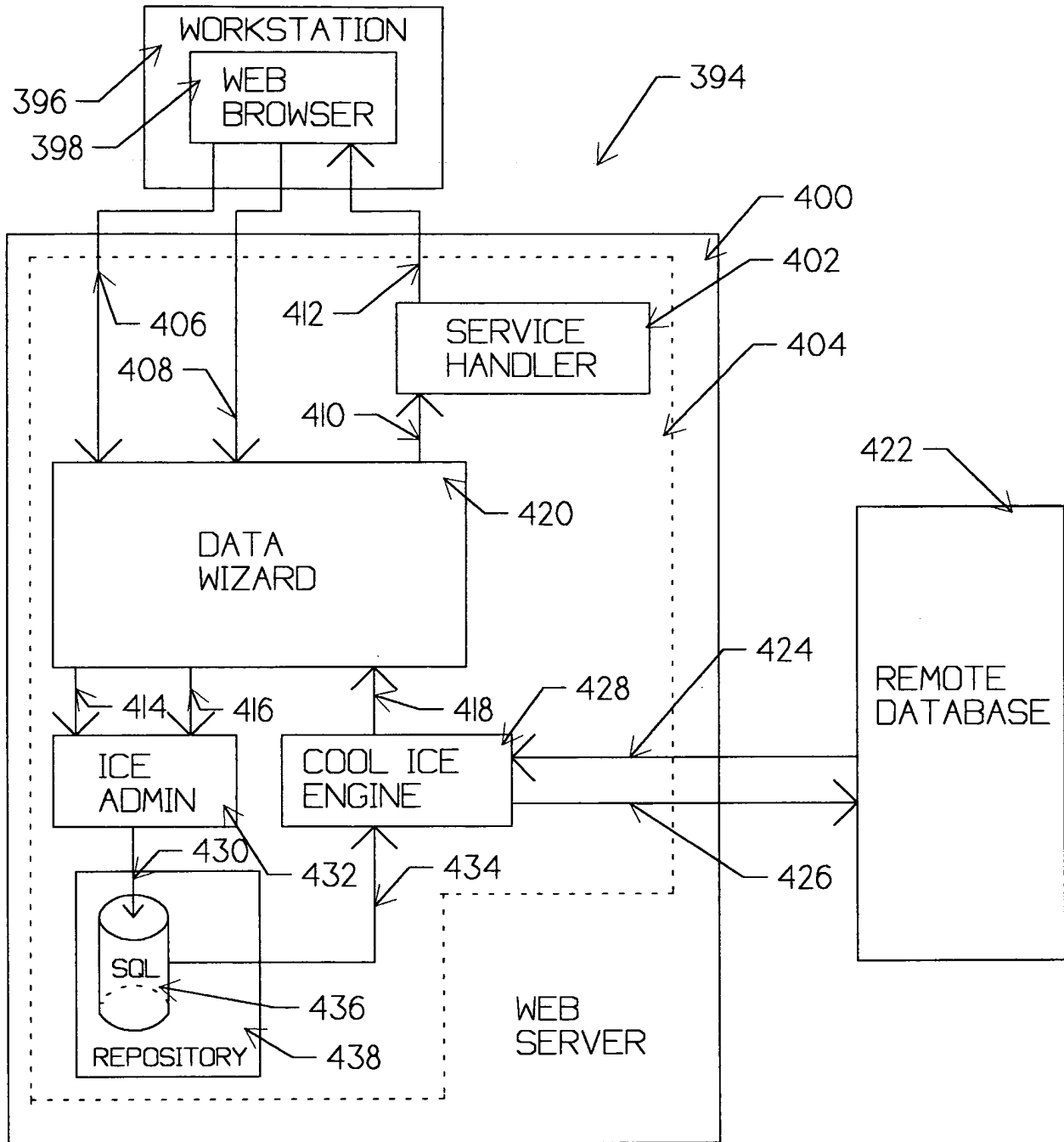


FIG. 14

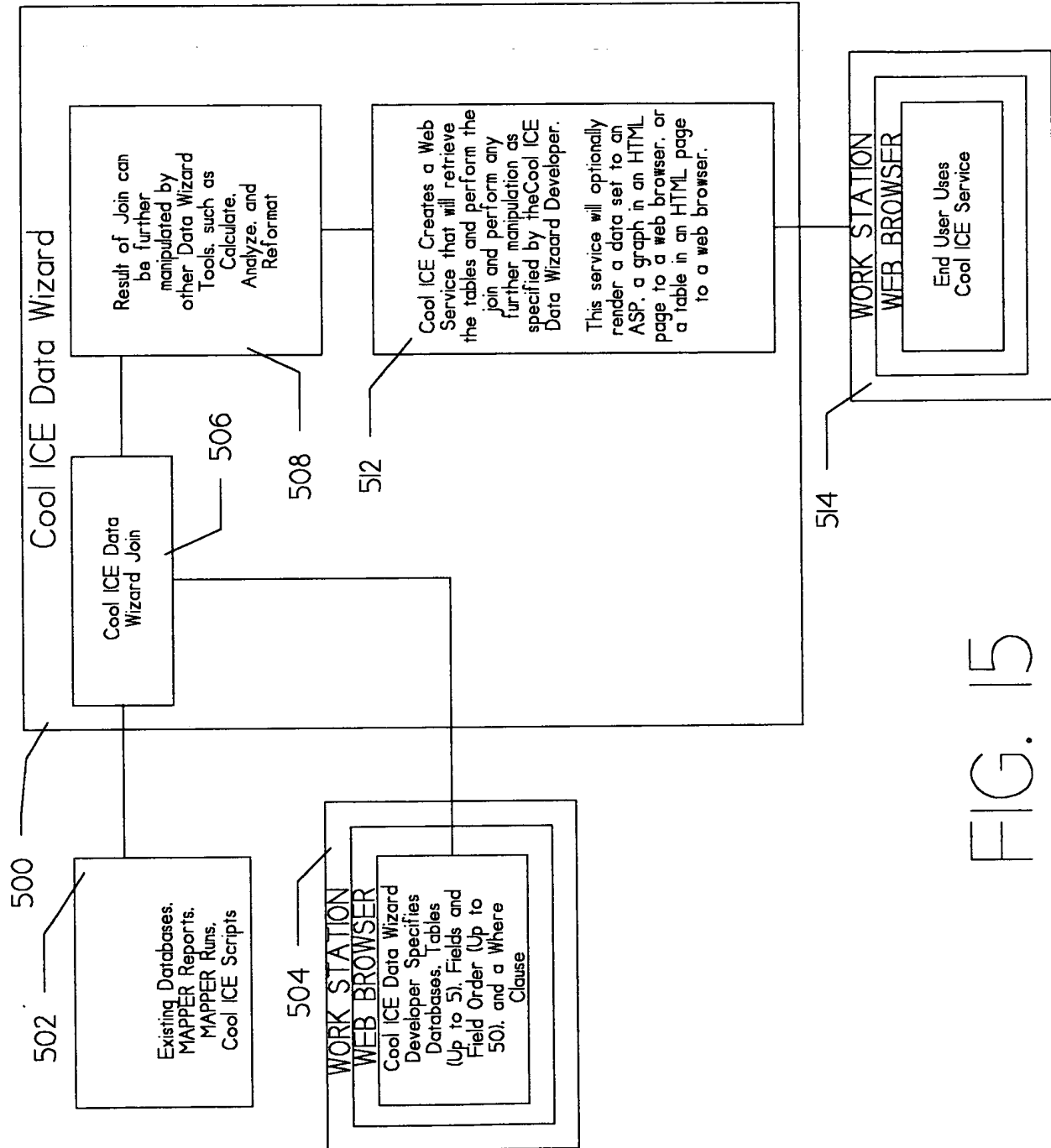
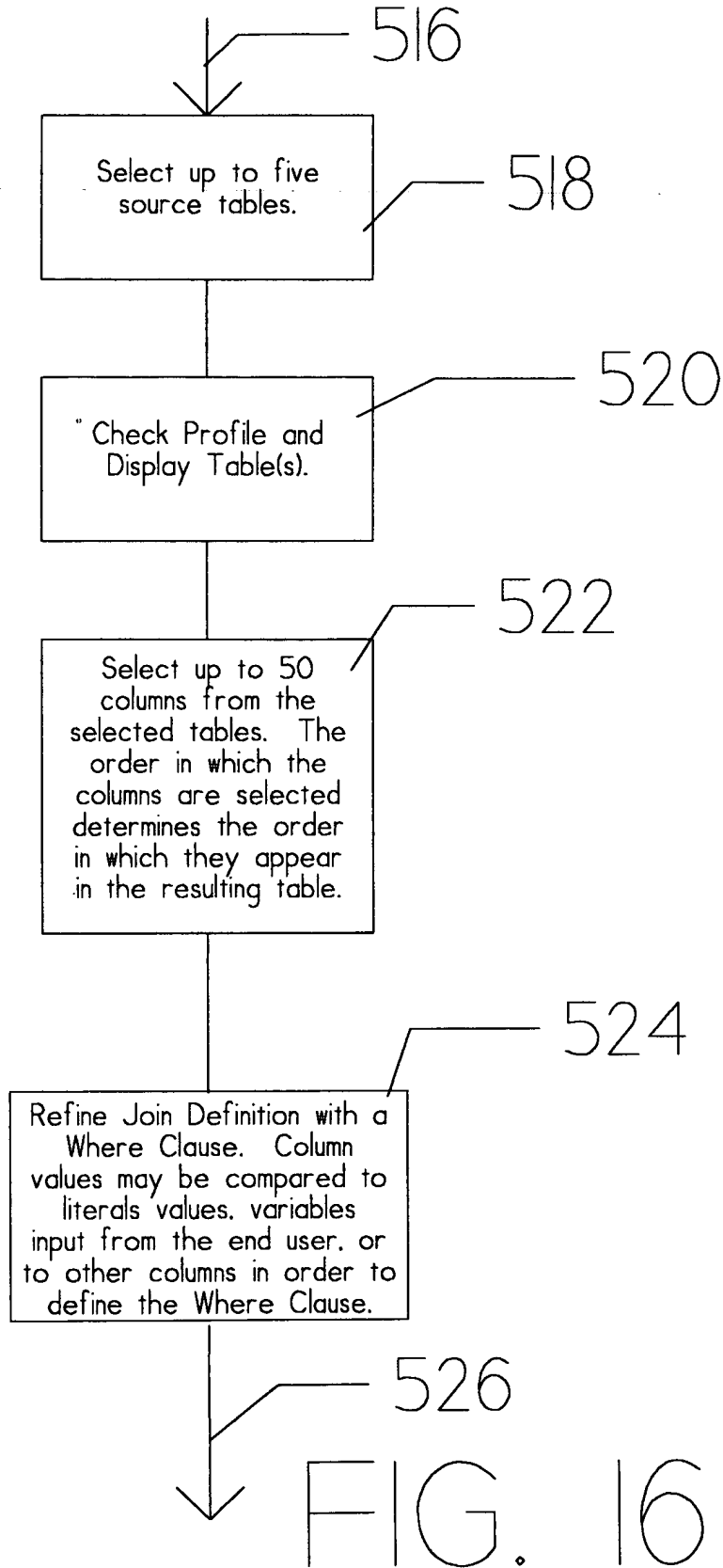


FIG. 15



1003911.1 1003911.1



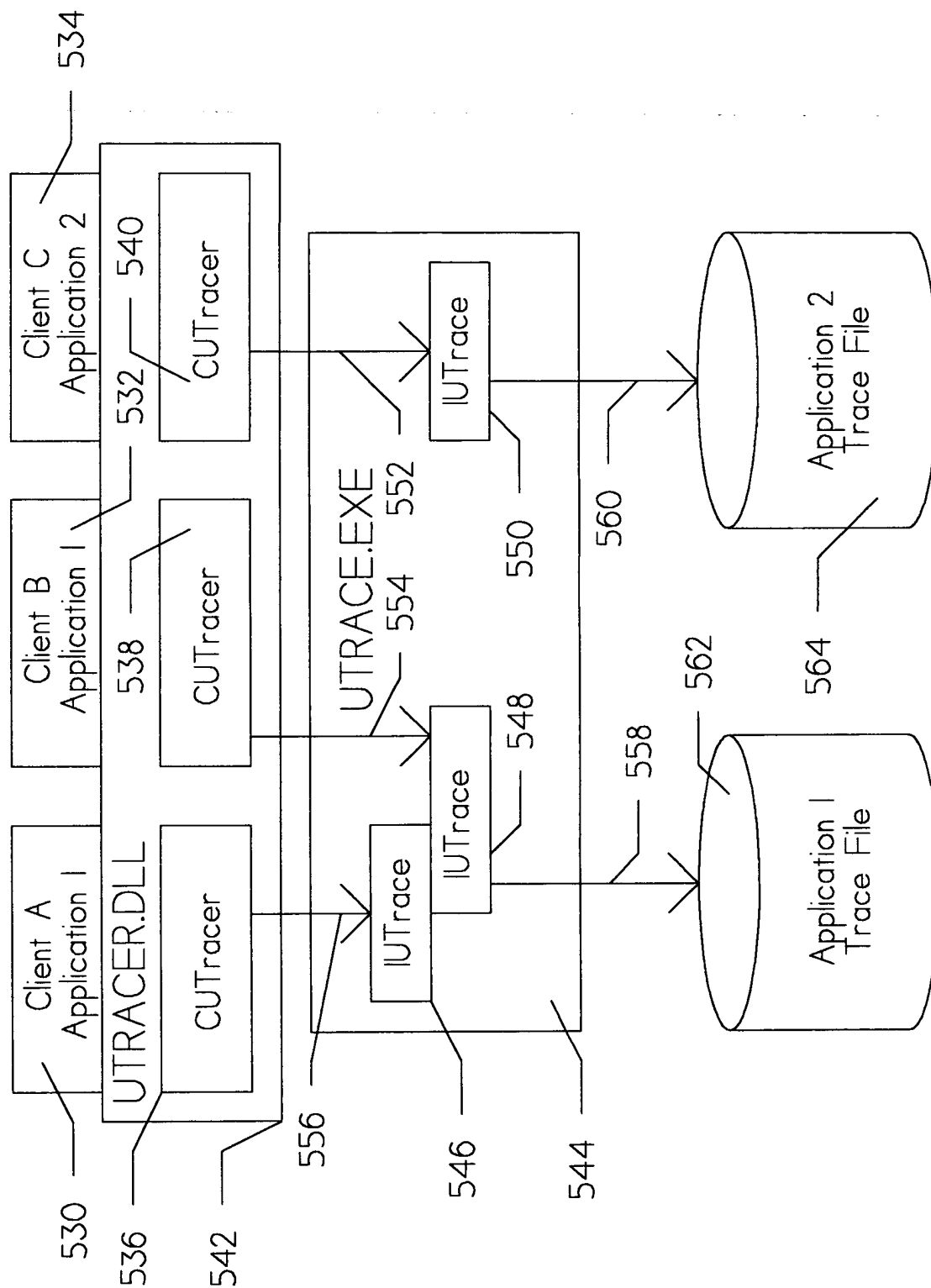


FIG. 17

HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application

565

ENABLETRACE	-- DWORD value indication a Boolean (=trace., 0=no trace).
MAXENTRIES	-- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.
FORMATFLAGS	-- DWORD value indicating message formatting flags.
POLICYFLAGS	-- DWORD value indicating trace policy flags set for the application.
TRACELEVEL	-- DWORD value indicating a trace level. 0 = no trace.
TRACEPATH	-- String value indicating the directory path for the trace files.
REGTRACE	-- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.
COMPONENT	-- A subkey for a specific component of the application.
POLICYFLAGS -- Value indicating component level trace policy flags	
TRACELEVEL	-- DWORD Value indicating a trace level. 0 = no trace.
VERSIONTRACE	-- String value specifying executable component name for version information tracing.

FIG. 18

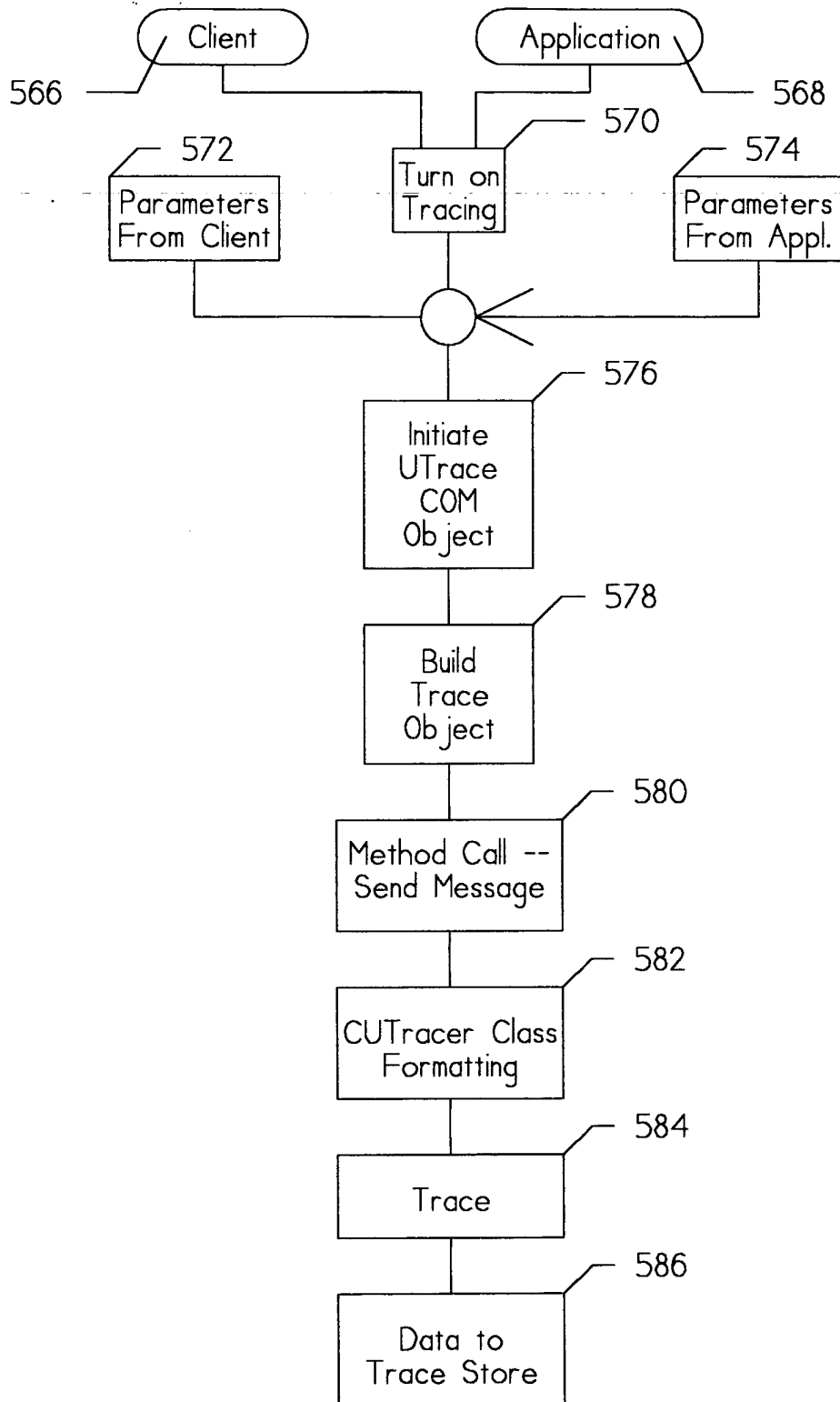


FIG. 19

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TET 5/2/2007

```
#define CI_TRACE_VERSION      0x1
#define CI_TRACE_ERROR        0x2
#define CI_TRACE_INTERFACE    0x4
#define CI_TRACE_FLOW         0x8
#define CI_TRACE_DETAIL       0x10
```

FIG. 20A

```
if (m__trace.Active(CI_TRACE_DETAIL))
m__trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

100391.1301  
T.0T.00T" T.5.2.00T

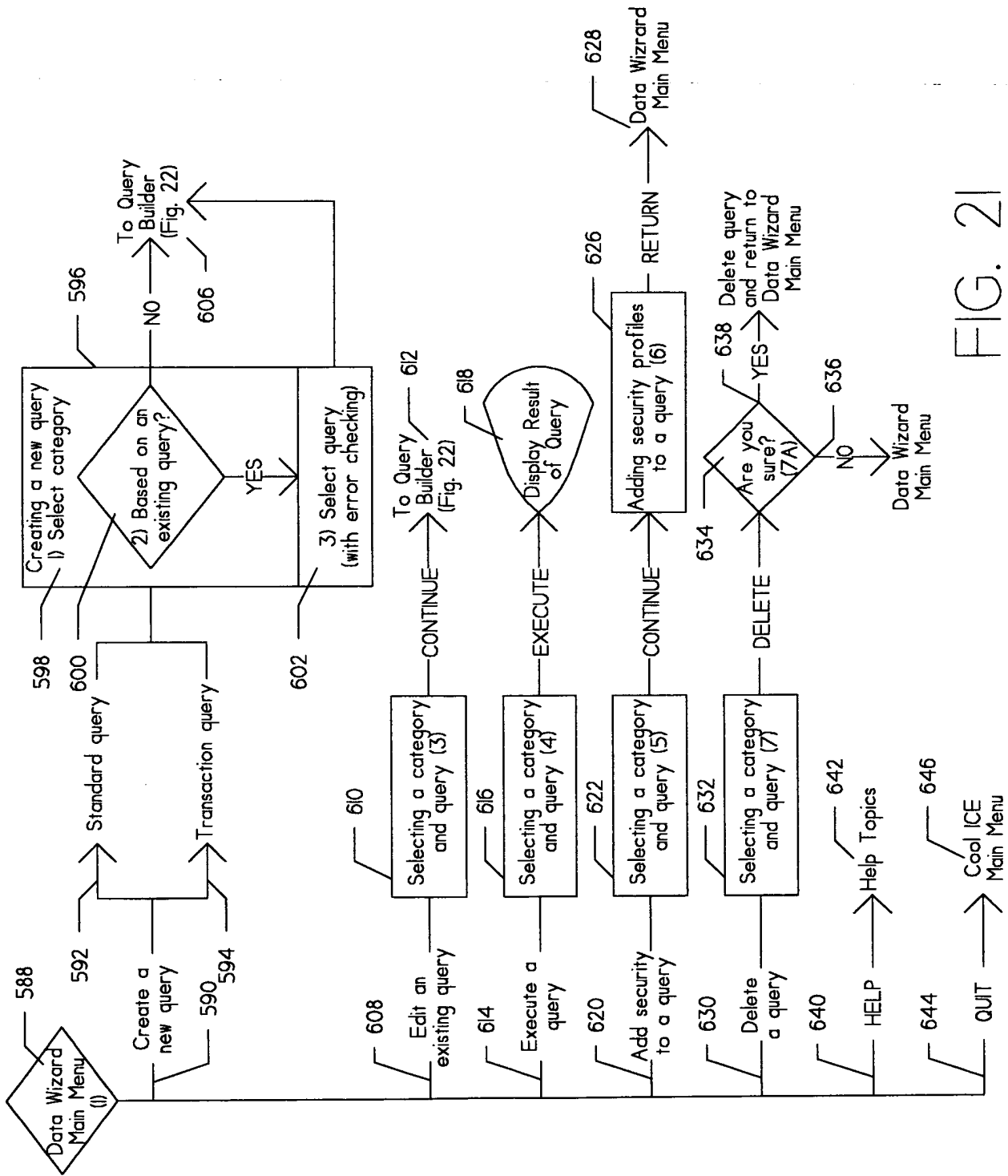


FIG. 21

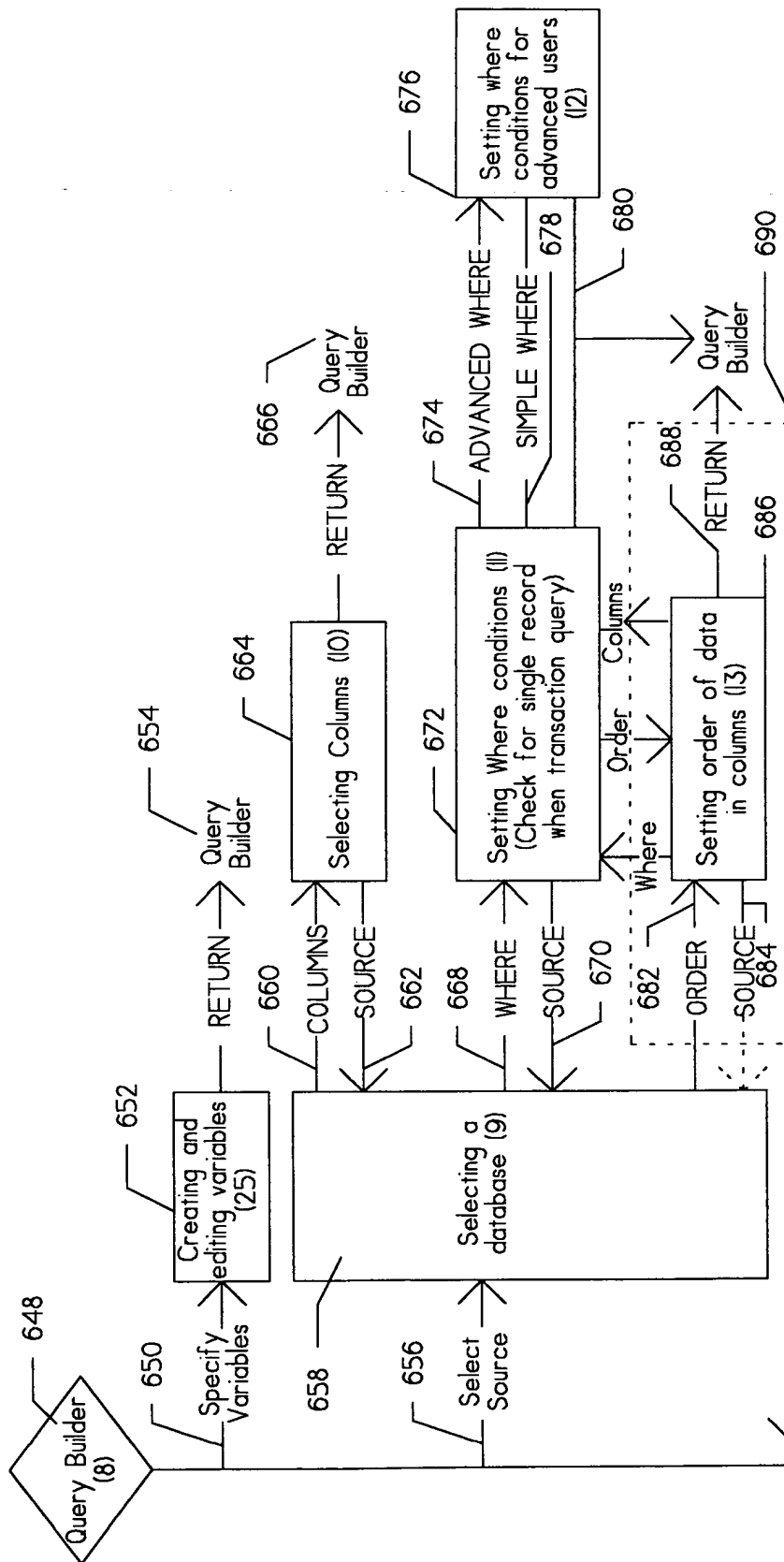


FIG. 22A

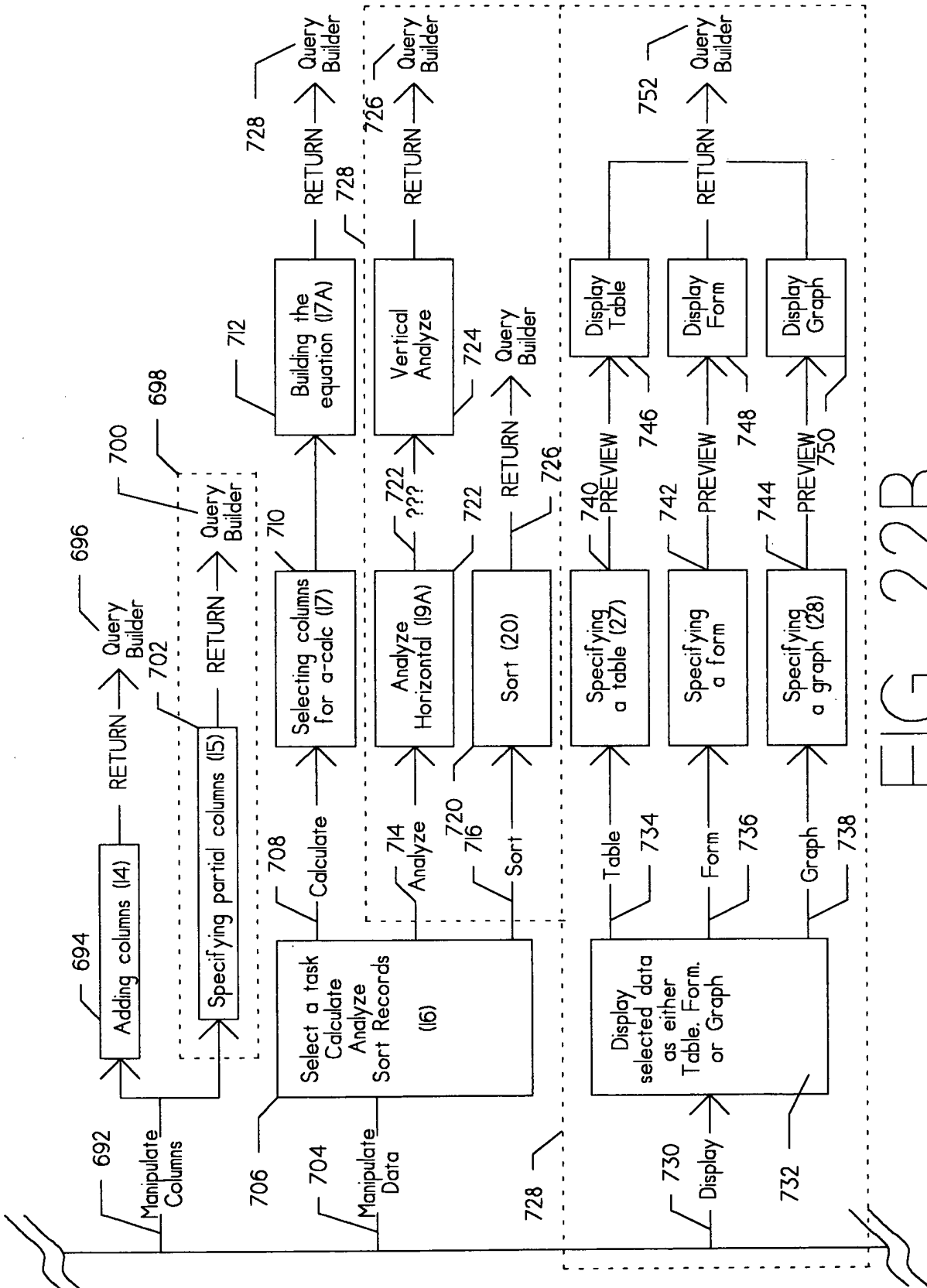


FIG. 22B

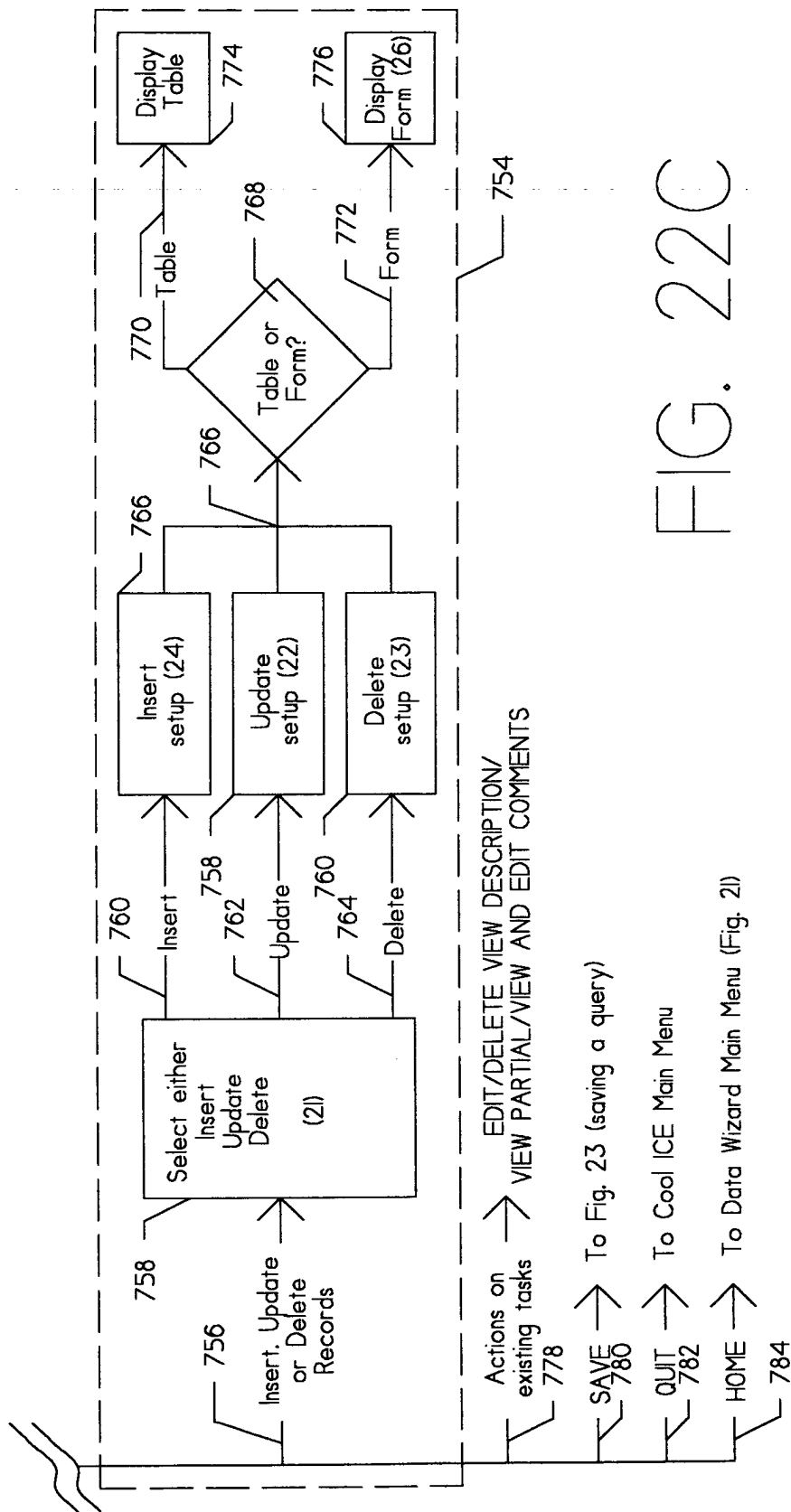


FIG. 22C



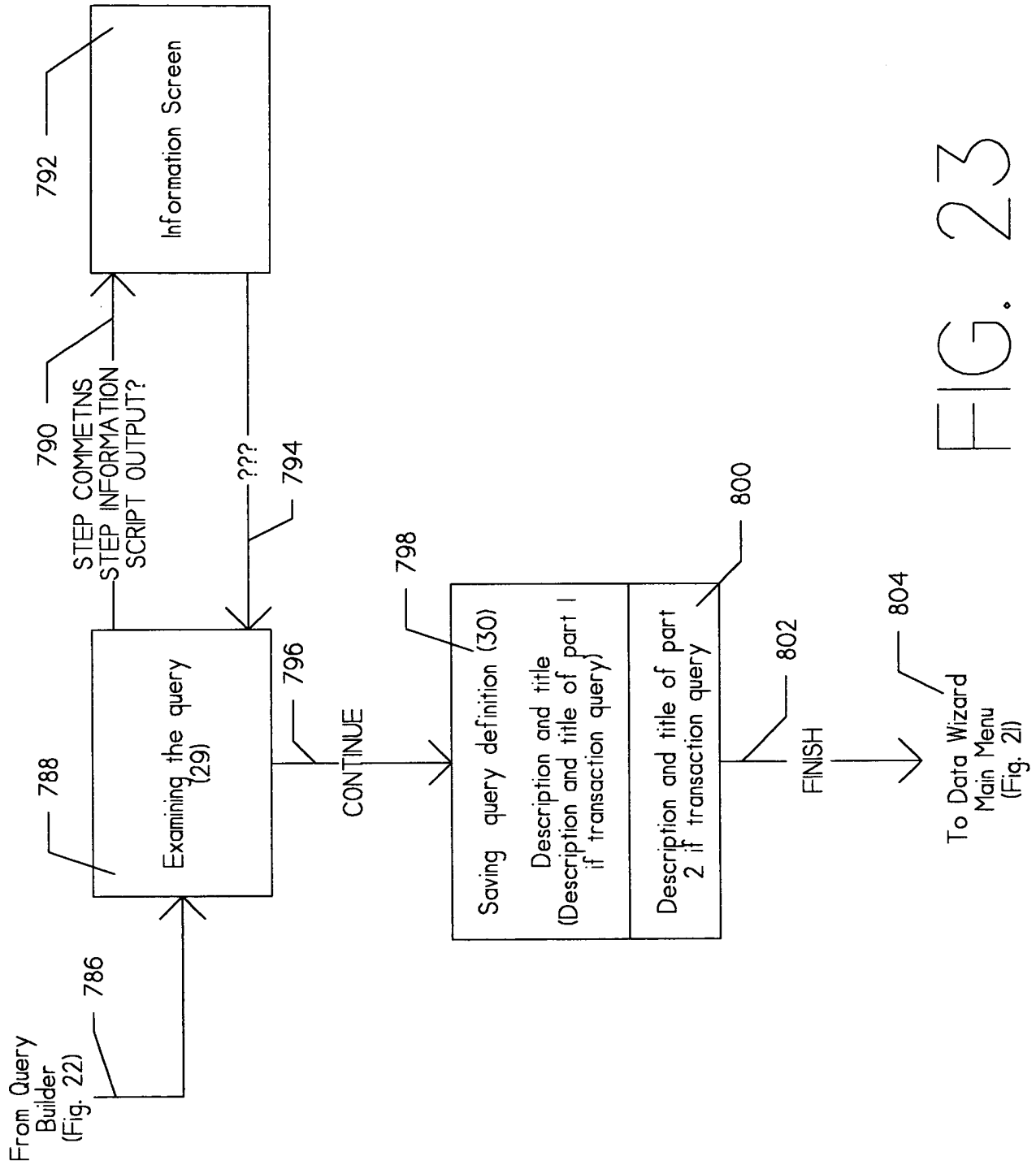


FIG. 23

FIG. 24

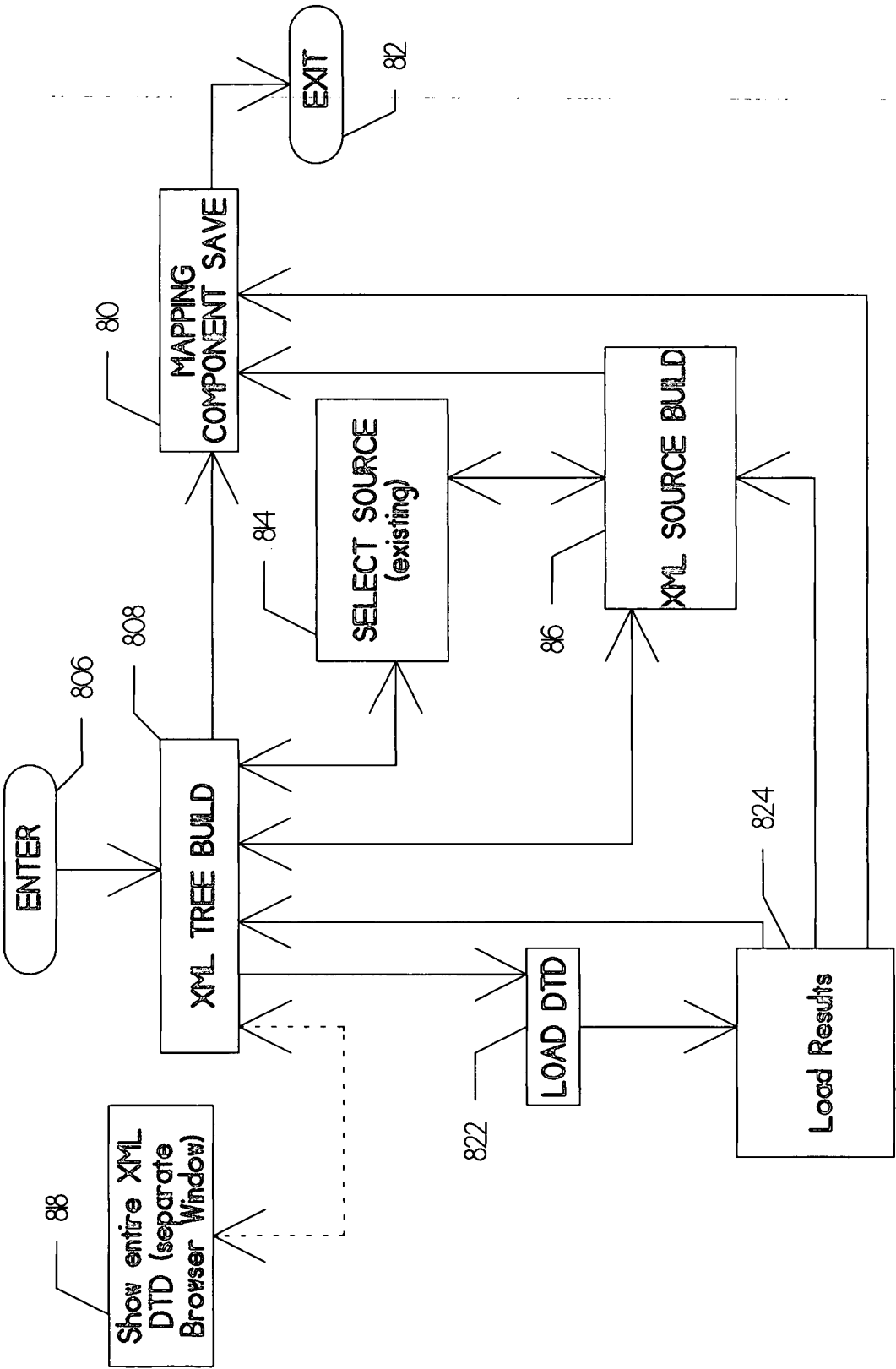


FIG. 24

XML Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder

UNISYS

828 Home Quit Cancel Help 872 Redisplay 874 Sources 876 Save

830 XML MAPPING ELEMENTS

ELEMENTS		CONTROLS	
836 Newspaper	<input type="radio"/> Variables	Mapping Type	Name Conversion
838 Article	<input type="radio"/> Tables	Open	Capital
840 Article	<input type="radio"/> Article	Table Mapping	868
842 Author	<input type="radio"/> Article	Complete	866
844 Editor	<input type="radio"/> Author		
846 Date	<input type="radio"/> Editor		
848 Edition	<input type="radio"/> Date		
850 Headline	<input type="radio"/> Edition		
852 Byline	<input type="radio"/> Headline		
854 Lead	<input type="radio"/> Byline		
	<input type="radio"/> Lead		
	<input type="radio"/> Body		

826

858

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866

868

872

874

876

Save

Redisplay

Sources

Mapping Type

Open

Table Mapping

Complete

Name Conversion

Capital

Item Type

Sequence

Mapping

Row Iterator

Value

Element Form

Row Rpt

FIG. 25

XML Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

838	Newspaper	<input type="radio"/>	<input type="radio"/>	Mapping Type <input type="checkbox"/> Open 868 <input checked="" type="checkbox"/> Table Mapping <input type="checkbox"/> Complete 866	Name Conversion <input checked="" type="checkbox"/> Capital 864
840	Article	<input type="radio"/>	<input type="radio"/>	<b>Element Properties</b> Item Type <input type="checkbox"/> Sequence 860 Mapping <input type="checkbox"/> Row Iterator 862 Value <input type="checkbox"/> 863 Element Form <input type="checkbox"/> Rpt 861	<b>Actions</b> 865 Clear Mapping Add Sibling above Add Sibling below Add Childred Add Attributes Delete Branch Compact View Show Representation
842	Author	<input type="radio"/>	<input type="radio"/>		
844	Editor	<input type="radio"/>	<input type="radio"/>		
846	Date	<input type="radio"/>	<input type="radio"/>		
848	Edition	<input type="radio"/>	<input type="radio"/>		
850	Headline	<input type="radio"/>	<input type="radio"/>		
852	Byline	<input type="radio"/>	<input type="radio"/>		
854	Lead	<input type="radio"/>	<input type="radio"/>		
	Body	<input type="radio"/>	<input type="radio"/>		
	Notes	<input type="radio"/>	<input type="radio"/>		

826

FIG. 26

XML-Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder  
UNISYS

Home Quit Cancel Help  
XML MAPPING ELEMENTS  
871

872  
Redisplay  
874  
Sources  
876  
Upload DID  
Save  
873

ELEMENTS  
858  
Root  
[ ]  
[ ]  
[ ]  
[ ]  
[ ]

Variables  
Tables  
856

CONTROLS  
Mapping Type  
Open  
Table Mapping  
Complete  
Name Conversion  
Capital  
868  
864  
866

Element Properties  
Item Type  
Sequence  
Mapping  
Row Iterator  
Value  
Element Form  
Rapid Rpt  
860  
861  
862  
863

870

FIG. 27

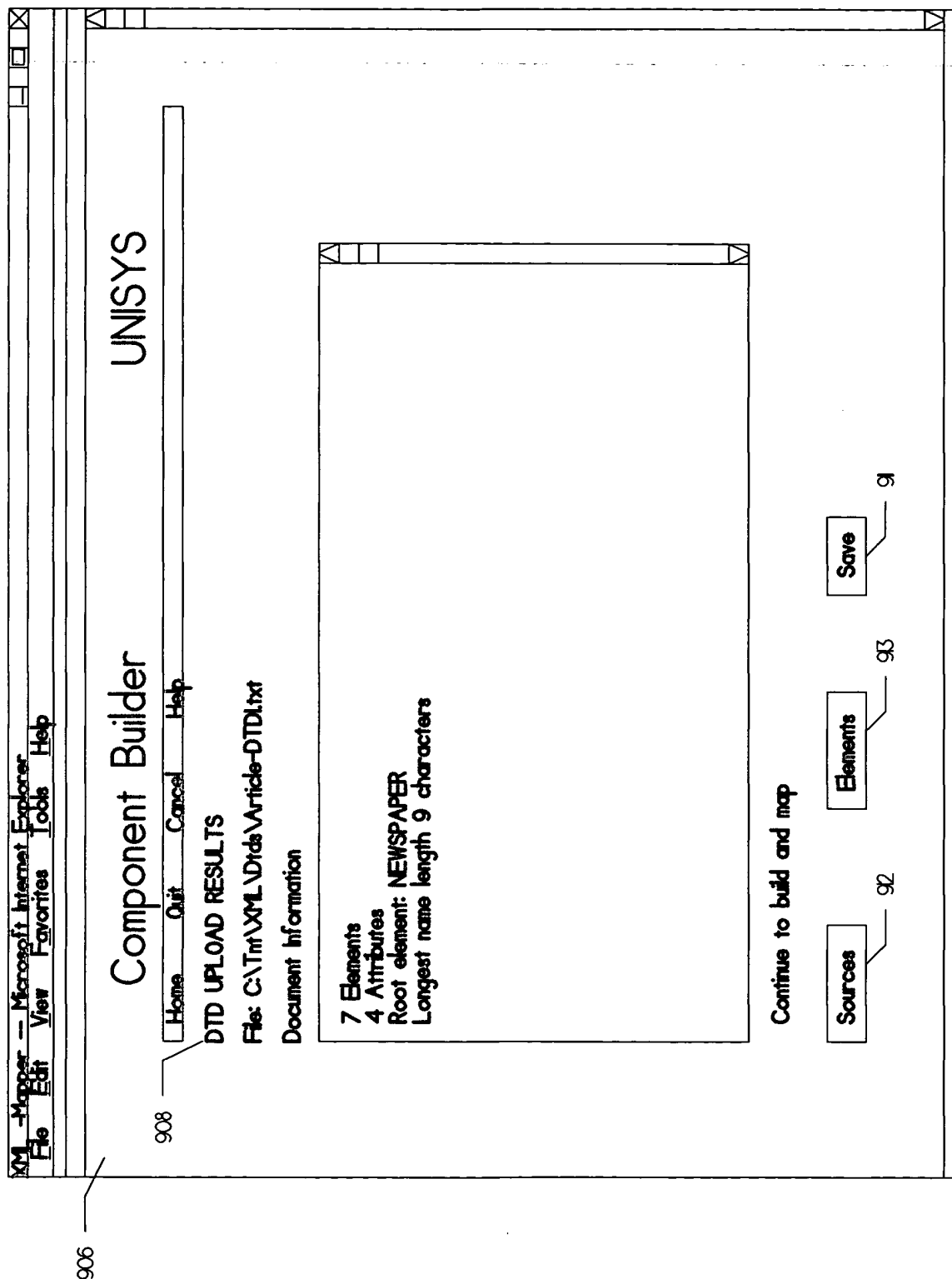


FIG. 28

# IDT EXAMPLE

Version:AC:0.0 90  
Truncation:AC:0 92  
TypeCheck:AC:0 93  
ShoeData:ED:0:R 94  
From:DE:R  
From:EV:Supplier:20:string  
TableType:ED:R  
TableType:EV:TableInfo:50:string  
Inventory:ED:R  
Inventory:BT:Inventory:7  
Inventory:H:ITEMNUMBER:10  
Inventory:H:QTY:5  
Inventory:H:TYPE:10  
Inventory:H:GENDER:6  
Inventory:H:SIZE:3  
Inventory:H:COLOR:31  
Inventory:H:UNTCOST:13  
Date:AD:R  
Date:AV:SendDate:10:string  
Time:AD:R  
Time:AV:SendTime:5:string  
Row:ED:2:R  
Row:BR:1  
ItemNr:ED:2:R  
ItemNr:EF:ITEMNUMBER:10:R:string  
Quantity:AD:2:R  
Quantity:AF:QTY:5:R:string  
Type:ED:2:R  
Type:EF:TYPE:10:L:string:  
Gender:ED:2:0  
Gender:EF:GENDER:6:L:string:UniSex  
Size:ED:2:R  
Size:EF:SIZE:3:L:string:  
Color:ED:3:0  
Color:EF:COLOR:31:L:string:White  
Unitcost:ED:2:R  
Unitcost:EF:UNTCOST:13:R:string:  
Row:EE:2  
Row:ER:a  
Inventory:EE:1  
Inventory:ET:1 96

FIG. 29

10027931.102101

# DTD EXAMPLE

98

<!DOCTYPE ShoeData [

```

<!ELEMENT ShoeData (From, TableType, Inventory)>
<!ELEMENT From (#PCDATA)>
<!ELEMENT TableType (#PCDATA)>
<!ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<!ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<!ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<!ELEMENT Type (#PCDATA)>
<!ELEMENT Gender (#PCDATA)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT Unitcost (#PCDATA)>
    
```

FIG. 30



XML INPUT DOCUMENT EXAMPLE

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```

<?xml version="1.0" encoding="ISO-8859-1"?>
<ShoeDate>
  <FrontRecord>
    <Store/VFront>
      <TableType>
        <Inventory Count/VTableType>
          <Inventory Date>2000-12-05</Inventory Date>
          <Item>
            <Color>
              <Quantity>0732335</Quantity>
              <Type>
                <Tennis/VType>
                  <Gender>
                    <Male/VGender>
                      <Size>8</Size>
                      <Color>
                        <White/Zen Grey/Red Spruce/VColor>
                          <UnitCost>25.00</UnitCost>
                        </Color>
                      </Color>
                    </Gender>
                  </Type>
                <Quantity>0735410</Quantity>
                <Type>
                  <Running/VType>
                    <Gender>
                      <Women/VGender>
                        <Size>5</Size>
                        <Color>
                          <White/Zen Grey/Neptune Blue/VColor>
                            <UnitCost>2.70</UnitCost>
                          </Color>
                        </Gender>
                      </Gender>
                    </Type>
                  <Quantity>0735410</Quantity>
                  <Type>
                    <Running/VType>
                      <Gender>
                        <Women/VGender>
                          <Size>8</Size>
                          <Color>
                            <White/Zen Grey/Neptune Blue/VColor>
                              <UnitCost>2.70</UnitCost>
                            </Color>
                          </Gender>
                        </Gender>
                      </Type>
                    <Quantity>2735420</Quantity>
                    <Type>
                      <Running/VType>
                        <Gender>
                          <Women/VGender>
                            <Size>5</Size>
                            <Color>
                              <White/Orlando Blue/Hot Lime/VColor>
                                <UnitCost>2.70</UnitCost>
                              </Color>
                            </Gender>
                          </Gender>
                        </Type>
                      <Quantity>T73742</Quantity>
                      <Type>
                        <Golf/VType>
                          <Gender>
                            <Women/VGender>
                              <Size>8</Size>
                              <Color>
                                <White/Fluorescent Pink/VColor>
                                  <UnitCost>35.00</UnitCost>
                                </Color>
                              </Gender>
                            </Gender>
                          </Type>
                        </Inventory>
                      </ShoeDate>
                      <Color>
                        <White/Black-Hot Lime-Neo Teal/VColor>
                          <UnitCost>40.00</UnitCost>
                        </Color>
                      </Color>
                    </Type>
                  <Quantity>0732474</Quantity>
                  <Type>
                    <Tennis/VType>
                      <Gender>
                        <Women/VGender>
                          <Size>8</Size>
                          <Color>
                            <White/Light Marine-Ultramarine/VColor>
                              <UnitCost>25.00</UnitCost>
                            </Color>
                          </Gender>
                        </Gender>
                      </Type>
                    <Quantity>T73530</Quantity>
                    <Type>
                      <Running/VType>
                        <Gender>
                          <Male/VGender>
                            <Size>8</Size>

```

FIG. 31

10027931.122101